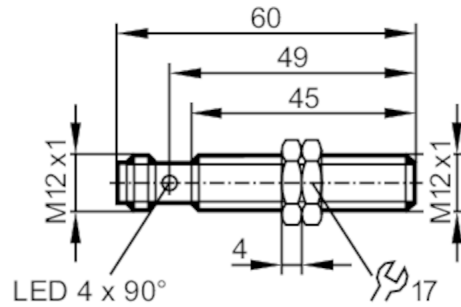


# DI5027



## Compact evaluation unit for speed monitoring

DFK33,5BWRKG/IO/US



Product characteristics	
Electrical design	PNP/NPN
Output function	normally open / closed; (configurable)
Sensing range [mm]	3.5
Communication interface	IO-Link
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 60
Application	
Application	simple evaluation of rotating and linear movement with regard to underspeed; blocking
Electrical data	
Nominal voltage DC [V]	10...30
Current consumption [mA]	< 10
Protection class	III
Reverse polarity protection	yes
Outputs	
Electrical design	PNP/NPN
Output function	normally open / closed; (configurable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Short-circuit proof	yes
Overload protection	yes
Monitoring range	
Sensing range [mm]	3.5
Sensing range adjustable	no
Operating distance [mm]	0...2.83
Measuring/setting range	
Setting range [Imp/min]	5...24000
Accuracy / deviations	
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]	10

# DI5027



## Compact evaluation unit for speed monitoring

DFK33,5BWRKG/IOJUS

Reaction times		
Start-up delay [s]		0...30; (In steps of: 100 ms; default: 15 s)
Max. damping frequency [Imp/min]		30000
Interfaces		
Communication interface		IO-Link
Operating conditions		
Ambient temperature [°C]		-40...85
Storage temperature [°C]		-25...85
Protection		IP 66; IP 67; IP 68; IP 69K
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
	EN 60947-5-2	
Shock resistance	EN 60068-2-27 Ea	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
Vibration resistance	DIN EN 60947-5-2	20 g (10...3000 Hz) 50 sweep cycles per frequency; 1 octave per minute in 3 axes
MTTF [years]		668
UL approval	UL approval number	A008
Mechanical data		
Weight [g]		27.7
Housing		Threaded type
Mounting		flush mountable
Dimensions [mm]		M12 x 1 / L = 60
Thread designation		M12 x 1
Material		housing: brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated
Tightening torque [Nm]		7
Displays / operating elements		
Display	SIO mode	
	output stage supplied with current	4 x LED, yellow
	IO-Link mode	
	target in measuring range	4 x LED, yellow
	target outside measuring range	4 x LED, yellow flashing
Accessories		
Items supplied		lock nuts: 2

# DI5027

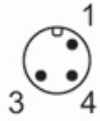


## Compact evaluation unit for speed monitoring

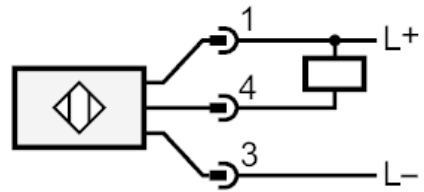
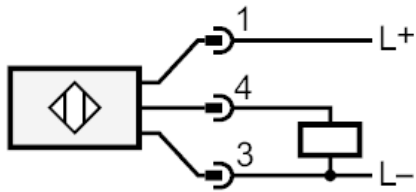
DFK33,5BWRKG/IO/US

### Electrical connection

Connector: 1 x M12; coding: A



### Connection



4: OUT / IO-Link